



ARENA DRIVE IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

CONSTRUCTION DETAILS

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 70 FT. MAST ARM. TRAFFIC SIGNAL HEADS, SIGN AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A TWIN 50 FT./70 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- C. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 38 FT. MAST ARM AND LED BLANKOUT SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- D. INSTALL NEMA SIZE "6" BASE MOUNTED CONTROLLER AND CABINET WITH CONCRETE PAD. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
- E. INSTALL EMBEDDED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE.
- F. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT. (TO BE PLACED IN THRU LANES ONLY).
- G. INSTALL 6 FT. x 22 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- H. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE)
- J. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- K. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- L. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- M. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- N. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- O. INSTALL 4 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - SLOTTED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
- P. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
- Q. INSTALL HANDHOLE.
- R. REMOVE EXISTING SIDEWALK AND INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. REPLACE 4 IN. CONCRETE SIDEWALK.
- S. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- T. USE EXISTING HANDHOLE.
- U. USE EXISTING CONDUIT.
- V. USE EXISTING HANDHOLE, DISCONNECT AND PULL BACK EXISTING 6 FIBER MULTIMODE FIBEROPTIC CABLE HEADING WEST AND RE-FEED IN NEW CONDUIT TO PROPOSED BASE MOUNTED CABINET. CONTRACTOR SHALL CUT THE EXISTING 6 FIBER MULTIMODE FIBEROPTIC CABLE TO ALLOW FOR SUFFICIENT LENGTH OF CABLE TO BE RE-FEED TO NEW CABINET TO MAINTAIN COMMUNICATION CONNECTION TO THE EAST. REMOVE AND DISPOSE OF ALL UNUSED 6 FIBER MULTIMODE FIBEROPTIC CABLE.
- W. REMOVE EXISTING SIDEWALK AND INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - SLOTTED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE.
- X. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - SLOTTED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE.
- Y. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - SLOTTED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE.
- Z. REMOVE EXISTING SIDEWALK AND INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. REPLACE 4 IN. CONCRETE SIDEWALK.

PROPOSED VIDEO
DETECTION CAMERA

PROPOSED SIGNS

PROPOSED SIGNALS

NEMA PHASING

FLASHING
OPERATION

NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

SPECIAL NOTES:

- 1. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.
- 2. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.

GENERAL NOTES

- 1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- 3. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 4. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- 5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- 7. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
- 8. THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
- 9. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- 10. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.

| GEOMETRIC LEGEND |
|------------------|
| EXISTING |
| PROPOSED |
| UTILITY LEGEND |
| STORM DRAIN |
| GAS MAIN |
| WATER MAIN |
| SEWER MAIN |
| ELECTRIC CABLES |
| AERIAL CABLES |
| TELEPHONE CABLES |
| FIBER-OPTIC |

| APPROVALS |
|--|
| <i>[Signature]</i> 8/29/07 LEAD ENGINEER |
| <i>[Signature]</i> 8-30-07 ASSIST. DIR. CIVIL |
| <i>[Signature]</i> 9/4/07 DIVISION CHIEF |
| <i>[Signature]</i> 9/13 OFFICE DIRECTOR |

| REVISIONS |
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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
Arena Drive and I-95 Southbound Off-Ramp

TRAFFIC SIGNALIZATION PLAN

| | | |
|--------------------------|------------------------|------------------------|
| SCALE 1" = 20' | DATE AUGUST 23, 2007 | CONTRACT NO. PG6395122 |
| DESIGNED BY S. Bloss | COUNTY PRINCE GEORGE'S | |
| DRAWN BY S. Bloss | LOGMILE | |
| CHECKED BY N. Leary | TMS NO. I 023 | |
| FAP NO. AC-114-95-3177JN | TOD NO. | |
| TS NO. 4616 | DRAWING TSP-4 | OF 12 |
| | | SHEET NO. 5 OF 13 |

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BY: jrasmusen